

**INTERACTIVE TELEVISION SYSTEM AND METHOD  
FOR SIMULTANEOUS TRANSMISSION AND  
RENDERING OF MULTIPLE MPEG-ENCODED VIDEO  
STREAMS**

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**ABSTRACT OF THE DISCLOSURE**

A system and method for the simultaneous transmission and rendition of multiple MPEG-encoded digital video signal streams in an interactive television application are disclosed. Simultaneous transmission and rendition of multiple MPEG-encoded digital video signal streams in an interactive television application generally comprises

10 determining a value for a display position code corresponding to a display position of each slice of each of the MPEG-encoded video streams, modifying the value of the display position code of each slice of each of the MPEG-encoded video streams as necessary, and interleaving each slice of each of the MPEG-encoded video streams as modified into a single composite video stream. The modifying preferably maintains bit-

15 alignment of the display position code within a byte. The MPEG-encoded video streams are optionally MPEG-1 or MPEG-2 encoded video streams and the display position code is optionally a macroblock address increment variable length codeword and/or at least a byte of a slice startcode.